

Chapter 10: Ecology

Compiled by Gorjana Bezmalinovic

Laboratory Objectives

By the end of today's session students should be able to:

1. Define ecological levels of organization.
2. Identify biotic and abiotic factors in a specific ecosystem.
3. Explain the difference between different trophic levels.
4. Draw food chains and food webs.
5. Describe how energy flows through an ecosystem.
6. Explain what LC_{50} is and how indicator organisms are used in bioassays to determine the effect of pollutants.
7. Design their own experiment with *Daphnia magna* and pollutant λ -cyhalothrin.

Ecology is the branch of biology that studies how organisms interact with each other and with their environment. Biotic, living or organism-related factors, and abiotic, nonliving or physical factors, shape the distribution and abundance of organisms on Earth. Examples of abiotic factors in a terrestrial environment would be sunlight, temperature, air, water, wind, humidity, pH of the soil, etc. In a marine environment salinity, pH levels in the ocean and tides would be important in addition to the previously mentioned factors such as sunlight, temperature, O_2 and CO_2 concentration.

Today's ecologists are quantitative scientists who run controlled experiments, use statistics to find patterns in large datasets, and build mathematical models of ecological interactions. They are experts in not only biology but also biochemistry, physiology, evolution, behavioral biology, molecular biology, as well as geology, chemistry, and physics.

Ecological levels of organization include organism, population, community, ecosystem, and biosphere (Figure 10.1).



Ecology On Campus Lab Manual Answers

**Thomas Michael Smith, Robert Leo
Smith**



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Elements of Ecology Thomas Michael Smith, Robert Leo Smith, 2006 KEY BENEFIT Elements of Ecology Sixth Edition maintains its engaging reader friendly style as it explains the basic principles of ecology The text is updated to include new chapters on current ecological topics new part introductions to connect the subfields of ecology and new in text features to encourage students to interpret the ecological data research and models used throughout the text Abundant accessible examples illustrate and clarify the text s emphasis on understanding ecological patterns within an evolutionary framework Additionally the text employs new study questions requiring students to make connections and apply their knowledge KEY TOPICS Introduction and Background The Nature of Ecology Adaptation and Evolution The Physical Environment Climate The Aquatic Environment The Terrestrial Environment Organismal Ecology Plant Adaptations Animal Adaptations Life History Patterns Population Ecology Properties of Populations Population Growth Interspecific Population Regulation Metapopulations The Ecology of Species Interactions Competition Predation Parasitism and Mutualism Community Ecology Community Structure Factors Influencing the Structure of Communities Community Dynamics Landscape Ecology Ecosystem Ecology Ecosystem Energetics Decomposition and Nutrient Cycling Biogeochemical Cycles Biogeographical Ecology Terrestrial Ecosystems Aquatic Ecosystems Land Water Interface Large scale Patterns of Biodiversity Human Ecology Population Growth Resource Use and Sustainability Habitat Decline Biodiversity and Conservation Ecology Global Climate Change MARKET For all readers interested in the basic principles ecology Laboratory Manual for Human Biology Bert Atsma, Sandra Hsu, 2002 A variety of approximately 30 lab activities to complete any human biology course **Ecology Lab Manual** Darrell Vodopich, 2009 *Investigations of the Department of Psychology and Education of the University of Colorado* University of Colorado (Boulder campus). Dept. of Psychology and Education, 1902 *Laboratory Manual of General Ecology* George W. Cox, 1967 **Evolution of Life** Cecie Starr, Ralph Taggart, 1998 This selected paperback binding of the Eighth Edition of Biology The Unity and Diversity of Life gives instructors the option of purchasing a shorter text covering selected excerpted topics Six paperbacks are available Cell Biology and Genetics Evolution of Life Diversity of Life Plant Structure and Function Animal Structure and Function and Ecology and Behavior Evolution of Life covers Unit III Principles of Evolution and contains a customized table of contents and the back matter from Biology The Unity and Diversity of Life The Evolution of Life volume includes a brief history of evolutionary thought microevolutionary thought microevolutionary processes macroevolution the origin and macroevolution of life and a case study of human evolution

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recombinant DNA and genetic engineering **Biology, the World of Life** Robert A. Wallace,1992 **Ecology Lab Manual** Darrell S. Vodopich,2009-02-12 Darrell Vodopich co author of Biology Laboratory Manual has written a new lab manual for ecology This lab manual offers straightforward procedures that are do able in a board range of classroom lab and field situations National Library of Medicine Current Catalog National Library of Medicine (U.S.), Current Catalog National Library of Medicine (U.S.), First multi year cumulation covers six years 1965 70 **Ecology Lab Manual** UNIVERSITY OF NORTH. TEXAS,University Of North,2021-08-30 *E-education Applications* Claude Ghaoui,2004-01-01 This work enforces the need to take multi disciplinary and or inter disciplinary approaches when solutions for e education or online e learning are introduced The text is aimed at researchers and practitioners from academia industry and government *Key-word-index of Wildlife Research* Rolf Andereg,1999 **Resources in Education** ,1979-10 **Ecological Society of America ... Annual Meeting Abstracts** Ecological Society of America. Meeting,1998 *Ecological Interaction of Abiotic and Biotic Factors in the Environment that Elicits Community Change Over Time (evidenced in the Primary Succession of a Southwestern Michigan Sand Dune)* Mark William Woolcock,2005 **Subject Guide to Books in Print** ,2001 Current Catalog ,1989 First multi year cumulation covers six years 1965 70 **Virginia State Documents** ,1993

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